CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.07/YVMM/CSR-1/735a/CEMENT/2014-15

Date: 14.01.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Y.V. Murali Mohana,** Contractor, Bangalore.
***NAME OF THE WORK**	:	Improvements to Roads and drains in Hebbala Flyover near Mariyamma Temple in Ward No.07, Byatarayanapura, BBMP, Bangalore.
***REFERENCE**	:	AEE/KH/209/2014-15 Dated: 14.01.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	14.01.2015
PERIOD OF TESTING	:	14.01.2015 to 14.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	495 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.07/YVMM/CSR-1/735a/SAND-Gradation/2014-15 : 14.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Y.V. Murali Mohana,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads and drains in Hebbala Flyover near Mariyamma Temple in Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : AEE/KH/209/2014-15 Dated: 14.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 14.01.2015

Date of Testing : 14.01.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.20	90-100	90-100	90-100	95-100
2.36	73.27	60-95	75-100	85-100	95-100
1.18	47.27	30-70	55-90	75-100	90-100
600 Micron	22.27	15-34	35-59	60-79	80-100
300 Micron	12.07	5-20	8-30	12-40	15-50
150 Micron	3.27	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH .C
Quality Manager

AE-1

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.07/YVMM/CSR-1/735a/AGG/GR/2014-15 : 14.01.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Y.V. Murali Mohana,** Contractor, Bangalore.

*** Name of Work** : Improvements to Roads and drains in Hebbala Flyover near Mariyamma Temple in Ward No.07, Byatarayanapura, BBMP, Bangalore.

Reference : AEE/KH/209/2014-15 Dated: 14.01.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 14.01.2015

Date of Testing : 14.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	39.35	30-70	0-20
10	12.80	10-35	0-5
4.75	2.80	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.07/YVMM/CSR-1/735a/CUBE/2014-15 23.01.2015

TEST REPORT ON DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Y.V. Murali Mohana,** Contractor, Bangalore.

*** Name of the work** : Improvements to Roads and drains in Hebbala Flyover near Mariyamma Temple in Ward No.07, Byatarayanapura, BBMP, Bangalore.

*** Reference** : AEE/KH/209/2014-15 Dated: 14.01.2015

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 22.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2015	23.01.2015	8 138	352.3	15.66
2	16.01.2015	23.01.2015	8.236	364.5	16.20
2	16.01.2015	23.01.2015	8.397	378.5	16.82

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AE-7

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.07/YVMM/CSR-1/735a/CUBE/2014-15 24.01.2015

TEST REPORT ON DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Y.V. Murali Mohana,** Contractor, Bangalore.

*** Name of the work** : Improvements to Roads and drains in Hebbala Flyover near Mariyamma Temple in Ward No.07, Byatarayanapura, BBMP, Bangalore.

*** Reference** : AEE/KH/209/2014-15 Dated: 14.01.2015

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 7th day

Sample Received on : 23.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2015	24.01.2015	8.390	496.3	22.06
2	17.01.2015	24.01.2015	8.450	525.6	23.36
2	17.01.2015	24.01.2015	8.275	485.6	21.58

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AE-1

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com